

ABSTRACT

A telemetric sensing system for monitoring physiological parameters for diagnosis and treatment of congestive heart failure in a patient. patient is provided. This system includes one or more implantable sensing devices implanted in a cavity of the patient's cardiovascular system, and a non-implantable reader unit. readout device. The implantable sensing device has an inductor and at least one sensor capacitor with an option of having electronic components, as well as a mechanism for anchoring the device inside the patient's patients' body. The external readout device has at least one inductor coil with a telemetric device that provides for at least one of allows electromagnetic telecommunication and wireless powering of the sensing device. implanted sensor. Data transmitted from the implantable device may include pressure, temperature, calibration data, identification data, fluid flow rate, chemical concentration, and/or other physiologic parameters. This wireless system provides a means for effective monitoring, management and tailoring of treatments for patients suffering from congestive heart failure as well as many other diseases.